



ROUGH TERRAIN CRANE

B

SR-300



[SPECIFICATION]

	1E			
Description		Rough terrain crar	e with maximum lif	fting capacity 30 ton
	Specification	, ,		
• orane c	opeenioution	9.35 m Boom	30,000kg × 3.0m	(Parts of line : 9)
		16.4 m Boom	19,000kg × 4.0m	(Parts of line : 6)
Maximum	ted lifting	23.45 m Boom	12,500kg × 5.5m	(Parts of line : 4)
Maximum ra capacity	ated inting	30.5 m Boom	8,000kg × 7.5m	(Parts of line : 4)
		8.7 m Jib	3,300kg × 75°	(Parts of line : 1)
		13.1 m Jib	2,100kg × 73°	(Parts of line : 1)
Boom length		Rooster 9.35m — 30.5m	4,000kg	(Parts of line : 1)
Fly jib length		8.7m — 13.1m		
Maximum ra		31.2m (Boom)		
height		44.8m (jib)		
Hoisting	Main winch	125m / min. (at 4th	n layer)	
line speed (winch up)	Auxiliary winch	125m / min. (at 4th	n layer)	
Hoisting	Main winch	(Parts of line; 9) :	13.8m / min. (at 4t	h layer)
hook speed (winch up)	Auxiliary winch		125.0m / min. (at 4t	
High-speed	Main winch			
lowering	Auxiliary winch	Reference value w	ith no load at 163n	n / min. (at 4th layer)
Boom derric		0° — 83°		
Boom derric		40s / 0° — 83°		
Boom exten		9.35 — 30.5m / 93	S	
Slewing spe	0 1	2.9min ⁻¹		
Tail slewing		3,100mm		
Equipm	ent and stru	ucture		
Boom type		Round-shaped, 4-	section hydraulical	
			4 simultaneously o	
Jib type			ction of draw-out ty tilting type (offset a	
Boom exten	ision/			-
retraction ed		I wo hydraulic cylir	nders and wire rope	es used together
	king/lowering			g type with pressure-
equipment		compensated flow		
Winch syste	em	reduction.	nger type noisting i	motor through planetary gear
Main & Áuxi	liary winches			speed switching type.
				I with automatic brake.
Slewing equ	ipment			and a planetary gear speed /Lock change-over model
Slewing bea	aring	Ball bearing type	0	0
	Туре	Hydraulic H-beam	type (with float and	l vertical cylinder in single unit)
		6,600mm (Fully ex		
Outriggers	Extension	6,000mm (Interme		
00-	width	5,000mm (Interme		
		3,800mm (Interme		
Wire rope	Main winch	2,310mm (Fully ref Diameter: 16mm×		
Wire rope for hoisting	Auxiliary winch	Diameter: 16mm×	-	
Hvdrau	lic equipme			
Oil pump		4 pumps, plunger a	and gear type	
	Hoisting motor			
motor	Slewing motor			
Control valv	e		integral check and	
	-		mpensated flow co	ntrol valve)
Cylinder Oil reservoir	canacity	Double acting type 500L	;	
		300L		
	uevices	ACS (Automatic Crar	e System with Voice a	alarm)
				e / lower dampening function,
			action dampening fun	
		Boom derricking / tele	ode, Outrigger status	, Jib derricking holding valve,
		Overhoist prevention	device, Winch holding	valve, Automatic winch brake,
			draulic safety valves, o, Hydraulic oil temper	Outrigger lock pins, Slewing lock, ature warning device,
		Hydraulic oil return fil		U ,
Standa	rd equipmer	nt		
			cold/warm box), Hy	
			oom, table and cab) i indication device, I	Hook for 30 ton, Hook for 4 ton
Operate	or's cab			
		Hvdraulic cab susp	ension, Adjustable	steering wheel.
		Adjustable suspens	sion seat, Power Wi	indow(external closing switch),
		Roof window wiper	viper & washer (2 s [.] & washer, Tea tabl	e, Cigarette lighter,
		Access step light, F		adio, Hot and cool box
Optional	al equipmen			
				oor visor, Anemometer
			a, Fire Extinguishe ane Operating Reco	
				-

Carrier Sp	ecificatio	201 D
Maximum trave		0
Grade ability		59% (computed at G.V.W. = 26515kg)
Minimum turnin	a radius	8.2m (2 wheel steer)
(center of extrem		4.9m (4 wheel steer)
Engine		
Model		Mitsubishi 6M60-TLE3A (with Intercooled turbocharger)
Туре		4 cycle, 6 cylinders, water cooled, direct injection turbo-charged
		diesel engine with intercooling
Piston displace	ment	7.545L
Max. power		200kW at 2,600min ⁻¹
Max. torque		785N·m at 1,400min ⁻¹
Equipmen	t and stru	N
Drive system		Switches between 2 wheel drive (4x2) and 4 wheel drive (4x4)
Torque convert	er	Engine mounted 3 elements 1 stage (with lock up clutch)
Transmission		Remote mounted full automatic
		4 forward & 1 reverse speed
Number of spe	JUS	(with HI - Low selector)
Axles	Front	Planetary, drive/steer type
10100	Rear	Planetary, drive/steer type
Suspension	Front	Taper-leaf spring, Hydraulic locking device with shock absorber
Cappendion	Rear	Taper-leaf spring, Hydraulic locking device with shock absorber
	Service	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)
Brake system		Spring applied, electrically air released parking brake mounted or
Diake System	Parking	front axle, internal expanding type
	Auxiliary	Exhaust brake, Eddy current retarder, Service brake lock
	Model	Full hydraulic power steering, Completely independent front and rear steering (with automatic rear wheel steering lock system)
Steering	Mode	Front 2 wheel steering, counter steering, crab steering, rear 2 wheel steering, independent front and rear wheel steering (5 modes) (with automatic rear steering lock system)
Tire size	Front	385 / 95 R25 170E ROAD
Tire size	Rear	385 / 95 R25 170E ROAD
Fuel tank capa	city	300 L
Batteries		(12V-120AH) ×2
 Safety dev 	vices	
		Emergency steering device, Rear wheel steering lock system (automatic), Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant leve warning device. Air filter service warning device, Electrically retractable side view mirrors
Standard	equipme	nt
		Centralized lubricating system
Optional e	quipmen	t
		Right side view camera, Left side view camera, Wheel stopper, Way side lamp, Side marker lamp
GENER	AL Din	nensions
Overall length		11,565mm
Overall width		2,620mm
Overall height		3,475mm
		3,650mm
	Front	2,170mm
Wheel base	-	2,170mm
Wheel base	Rear	
Wheel base Treads		One person
Wheel base Treads Passenger cap		One person approx. 26,515kg
Wheel base Treads	acity Gross	

Before you use this finderine, read the production in the matching operate it correctly.
 KATO products and specifications are subject to improvements and changes without notice.

■RATED LIFTING CAPACITY -----

Based on ISO 4305 Not exceed 75% of static tipping loads

9.35m — 30.5m Boom

											1			<u>></u>) - -	J T	
			6m)			(6.0				(5.0	- /				3m)				1m)	
Working		ggers fu full rar	ully exte nge)	nded			itermedi /er side				termed				itermedi /er side				omplete ver side)	
radius (m)	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom
2.5	30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		12.00	11.60	9.20	
3.0	30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		12.00	11.60	9.20	
3.5	27.20*	19.00	12.50	8.00	27.20*	19.00	12.50	8.00	27.20*	19.00	12.50	8.00	22.20	19.00	12.50	8.00	9.20	9.10	8.80	5.50
4.0	23.00	19.00	12.50	8.00	23.00	19.00	12.50	8.00	23.00	19.00	12.50	8.00	16.50	15.90	12.50	8.00	7.25	7.10	7.40	5.50
4.5	21.20	18.15	12.50	8.00	21.20	18.15	12.50	8.00	21.20	18.15	12.50	8.00	12.95	12.80	12.50	8.00	5.85	5.75	6.25	5.20
5.0	19.40	17.00	12.50	8.00	19.40	17.00	12.50	8.00	17.90	17.00	12.50	8.00	10.55	10.40	10.80	8.00	4.80	4.70	5.40	4.55
5.5	17.80	16.00	12.50	8.00	17.80	16.00	12.50	8.00	14.60	14.35	12.50	8.00	8.80	8.60	9.40	8.00	4.05	3.90	4.55	4.00
6.0	16.30	15.05	12.20	8.00	16.30	15.05	12.20	8.00	12.20	12.00	12.20	8.00	7.45	7.30	8.05	7.95	3.40	3.25	3.90	3.55
6.5	15.10	14.25	11.50	8.00	15.10	14.25	11.50	8.00	10.40	10.20	11.05	8.00	6.45	6.25	6.95	7.10	2.90	2.75	3.35	3.15
7.0		13.45	10.80	8.00		12.25	10.80	8.00		8.80	9.60	8.00		5.40	6.10	6.40		2.30	2.90	2.80
7.5		12.70	10.20	8.00		10.60	10.20	8.00		7.70	8.45	8.00		4.70	5.35	5.70		1.95	2.50	2.45
8.0		11.10	9.60	7.60		9.30	9.60	7.60		6.75	7.50	7.60		4.10	4.75	5.10		1.60	2.20	2.20
9.0		8.75	8.60	6.90		7.35	8.10	6.90		5.35	6.05	6.35		3.20	3.80	4.10		1.00	1.65	1.70
10.0		7.10	7.70	6.25		5.95	6.65	6.25		4.30	4.95	5.25		2.50	3.10	3.40		0.50	1.20	1.35
11.0		5.80	6.50	5.70		4.90	5.55	5.70		3.50	4.15	4.45		1.95	2.55	2.80			0.80	1.00
12.0		4.85	5.50	5.20		4.10	4.75	5.00		2.85	3.50	3.75		1.45	2.10	2.35				
13.0		4.10	4.70	4.80		3.40	4.05	4.35		2.30	2.95	3.25		1.05	1.70	1.95				
13.5		3.75	4.40	4.60		3.10	3.75	4.05		2.05	2.70	3.00		0.85	1.50	1.80				
14.0			4.05	4.35			3.50	3.75			2.45	2.75			1.35	1.65				
15.0			3.55	3.80			3.00	3.30			2.10	2.35			1.05	1.35				
16.0			3.10	3.35			2.60	2.90			1.75	2.05			0.80	1.10				
17.0			2.70	2.95			2.25	2.55			1.45	1.75			0.55	0.85				
18.0			2.35	2.60			1.95	2.20			1.20	1.50				0.65				
19.0			2.05	2.30			1.65	1.95			1.00	1.25				0.45				
20.0			1.75	2.05			1.45	1.70			0.80	1.10								
20.5			1.65	1.90			1.35	1.60			0.70	1.00								
21.0				1.80				1.50				0.90								
22.0				1.60				1.30				0.70								
24.0				1.25				0.95												
26.0				0.95				0.70												
27.9				0.75				0.45												
Critical boom angle	_	_	_	_	—	_	—	_	_	_	_	35°	—	_	34°	46°	_	41°	56°	65°
Standard hook		for 3	0 ton			for 3	0 ton			for 3	0 ton			for 3	0 ton			for 3	0 ton	
Hook mass		22	0kg			220	Okg			22	0kg			22	Okg		220kg			
Parts of line	9*/7	6	4	4	9*/7	6	4	4	9*/7	6	4	4	9*/7	6	4	4	7	6	4	4

(Unit : Metric ton)

									5° - 60°																	
								4										Ba	sed or			d 750	of at	otio tir	pping l	oodo
								- [8	00 5					0		- 1	: I			NOL	excee	u 757	5 OI SI	aucu	sping i	Uaus
									30.5	sm	BC	bor	n-I	-8.	. / n	n J	ai									
					6.6m)						/		(6.	0m)						-		(5.0	m)			
0	utrigge	ers fully	y extei	nded (360°f	ull rang	ge)		Out	riggers	intern	nediate	ely ext	ended	(over	side)		Out	riggers	interr	nediat	ely ext	ended	(over	side)	
Boom	Offs		Offse		Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse		Offse		Offse	et 60°	Boom	Offs	et 5°		et 25°	Offse		Offse	et 60°
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Load (ton)
83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05
75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05	75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05	75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05
73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05	73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05	73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05
71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04	71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04	71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04
69	14.9	2.65	16.7	1.99	17.6	1.43	17.7	1.04	69		2.65		1.99	17.6		17.7	1.04	69	14.9	2.46	16.7	1.99	17.6	1.43		1.04
65	17.4	2.23	19.0	1.76	19.7	1.37	19.7	1.04	65	17.4	2.23		1.76	19.7	1.37	19.7	1.04	68	15.4	2.27	17.3	1.93	18.1	1.41		1.04
62	19.1	1.99	20.6	1.62	21.3	1.34	21.0	1.04	62	19.1	1.92	20.6	1.62	21.3	1.34	21.0	1.04	64	17.6	1.60	19.4	1.40	20.3	1.33	20.2	1.04
58	21.3	1.72	22.7	1.46	23.2	1.31			60	20.2	1.65	21.7	1.51	22.2	1.33			62	18.7	1.33	20.4	1.19	21.2	1.14	21.0	1.04
56	22.4	1.48	23.8	1.37	24.2	1.27			58	21.2	1.43	22.7	1.31	23.2	1.30			61	19.8	1.10	21.4	0.99	22.1	0.97		
55	22.9	1.39	24.2	1.30	24.6	1.27			55	22.7	1.14	24.1	1.06	24.5	1.05			55	22.4	0.62	23.9	0.55	24.3	0.55		
50	25.3	0.98	26.5	0.91	26.5	0.91			50	25.1	0.75	26.3	0.70	26.5	0.70			53	23.3	0.48	24.9	0.40	25.1	0.40		
46	27.0	0.71	28.0	0.68	28.0	0.68			46	26.9	0.49	27.9	0.46	27.9	0.46			Critical boom angle	52	2°	5.	2°	52	2°	6	1°
45	27.4	0.65	28.4	0.62					45	27.4	0.42	28.3	0.41					Standard hook				for 4	ton			
10	00 5	0.00		0.05											-0		10									

40	29.5 0.38	30.4 0.35			Critical boom angle	44°	44°	45°	61°	Hook mass	60kg
Critical boom angle	39°	39°	45°	61°	Standard hook		for 4	l ton		Parts of line	1
Standard hook		for 4	1 ton		Hook mass		60	kg			
Hook mass		60	lkg		Parts of line			1]	
Parts of line			1				1				
							l l'	$\sum 5^{\circ} - 60^{\circ}$			

30.5m Boom+8.7m Jib

🖡 30.5m Boom+13.1m Jib

				(3.8n	n)									6.6m)						/]	(6	.0m)			
Out	riggers	s interr	nediat	ely ext	tended	l (over	side)		0	utrigge	ers full	y exte	nded (360°f	ull ran	ge)		Out	riggers	s interr	nediat	ely ext	ended	(over	side)	
Boom		et 5°		et 25°		et 45°	Offse		Boom	Offs			et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°		et 25°	Offse			et 60°
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Load (ton)
83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65
76	10.2	3.30	12.3	2.30	13.6	1.55	13.9	1.05	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65
75	10.9	2.96	13.0	2.30	14.2	1.53	14.4	1.05	73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65	73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65
71	13.2	1.96	15.2	1.63	16.5	1.45	16.6	1.04	71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64	71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64
68	14.9	1.40	16.9	1.17	18.0	1.09	18.2	1.04	65	19.9	1.62	22.5	1.03	24.0	0.83	24.1	0.63	65	19.9	1.62	22.5	1.03	24.0	0.83	24.1	0.63
65	16.6	0.97	18.5	0.82	19.4	0.79	19.6	0.78	62	21.8	1.48	24.3	0.99	25.5	0.81	25.7	0.63	62	21.8	1.48	24.3	0.99	25.5	0.81	25.7	0.63
62	18.3	0.59	20.2	0.48	20.9	0.48	20.9	0.48	60	23.1	1.38	25.5	0.96	26.6	0.80			60	23.1	1.37	25.5	0.96	26.6	0.80		
Critical boom angle	6	1°	6	1°	6	1°	6	1°	55	26.1	1.15	28.3	0.91	29.0	0.79			59	23.7	1.27	26.1	0.94	27.1	0.80		
Standard hook				for 4	ton				53	27.2	1.00	29.3	0.89	29.9	0.79			57	24.9	1.09	27.2	0.92	28.0	0.80		
Hook mass				60	kg				51	28.2	0.87	30.2	0.80	30.6	0.79			55	26.1	0.92	28.3	0.84	29.0	0.79		
Parts of line					1				46	30.6	0.58	32.3	0.54	32.4	0.54			50	28.7	0.59	30.6	0.54	31.0	0.53		
48A-751020	000								45	31.1	0.52	32.7	0.49					48	29.7	0.48	31.5	0.44	31.7	0.44		
									43	32.0	0.43	33.5	0.41					Critical boom angle	4.	7°	4	7°	47	7°	6	1°
									Critical boom angle	4	2°	4.	2°	43	5°	6	1°	Standard hook				for 4	l ton			
									Standard hook				for 4	l ton				Hook mass				60	kg			
									Hook mass				60	kg				Parts of line					1			
									Parts of line					1]								

				30).5I	m l	Bo	om	1 + 13	3.1	m .	Jib					
		-		(5.0	m)								(3.8n	ו)			
Outi	Outriggers intermediately extended (over side) Outriggers intermediately extended (over side)																
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°		et 60°
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	radius ()									
83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65
77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65
73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65	74	13.4	2.10	16.6	1.23	18.7	0.85	19.4	0.65
71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64	71	15.4	1.62	18.7	1.15	20.5	0.85	21.0	0.64
67	18.5	1.72	21.3	1.07	22.9	0.84	23.1	0.63	69	16.6	1.32	19.9	0.98	21.7	0.85	22.1	0.64
63	21.0	1.21	23.7	1.00	25.1	0.81	25.1	0.63	66	18.5	0.93	21.5	0.71	23.5	0.61	23.6	0.61
62	21.5	1.12	24.3	0.96	25.5	0.81	25.7	0.63	64	19.7	0.72	22.6	0.54	24.5	0.45	24.6	0.45
60	22.7	0.93	25.4	0.80	26.6	0.73			Critical boom angle	63	3°	6.	3°	6.	3°	6.	3°
55	25.5	0.54	27.9	0.47	29.0	0.39			Standard hook				for 4	1 ton			
Critical boom angle	5-	4°	54	4°	54	4°	6	1°	Hook mass				60	kg			
Standard hook				for 4	1 ton				Parts of line					1			
Hook mass				60	kg												
Parts of line					1												
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When the outriggers are not used

										Ó	<u>)</u> ;		
		Sta	ationary	on rubl	ber		F	Pick & c	arry (le	ss than	2 km/h)	
Working	9.35m	Boom	16.4m	Boom	23.45n	n Boom	9.35m	Boom	16.4m	Boom	23.45m	n Boom	Working
radius (m)	Over front	360° full range	radius (m)										
3.0	13.50	8.10	9.00	7.30			10.00	6.10	6.60	5.10			3.0
3.5	12.00	6.80	9.00	6.70	6.50	4.50	8.95	5.10	6.60	4.90	5.50	3.20	3.5
4.0	10.75	5.80	9.00	5.65	6.50	4.50	8.00	4.30	6.60	4.10	5.50	3.20	4.0
4.5	9.65	4.90	9.00	4.60	6.50	4.50	7.10	3.65	6.60	3.45	5.50	3.20	4.5
5.0	8.70	4.00	8.20	3.75	6.50	4.30	6.40	3.10	6.00	2.75	5.50	3.20	5.0
5.5	7.80	3.35	7.40	3.10	6.05	3.65	5.75	2.55	5.40	2.25	5.15	2.75	5.5
6.0	7.00	2.80	6.60	2.55	5.65	3.10	5.20	2.15	5.00	1.80	4.80	2.35	6.0
6.5	6.25	2.30	5.90	2.10	5.25	2.65	4.70	1.80	4.45	1.50	4.45	2.00	6.5
7.0			5.20	1.70	4.85	2.30			3.90	1.20	4.15	1.70	7.0
8.0			4.00	1.05	4.10	1.60			3.00	0.70	3.45	1.25	8.0
9.0			3.15		3.50	1.05			2.40		2.80	0.90	9.0
10.0			2.50		3.00	0.65			1.80		2.30		10.0
11.0			2.00		2.50				1.30		1.90		11.0
12.0			1.60		2.10				1.00		1.55		12.0
13.0			1.25		1.75				0.75		1.25		13.0
14.0					1.45						1.00		14.0
15.0					1.20						0.75		15.0
16.0					0.95						0.55		16.0
17.0			-		0.75								17.0
18.0					0.55								18.0
Critical boom angle		—		50°	29°	59°		—		49°	38°	61°	Critical boom angle
Standard hook			for 3	0 ton					for 3	0 ton			Standard hook
Hook mass			220	Okg					220	Okg			Hook mass
Parts of line			4	4				-	4	1			Parts of line

Based on ISO 4305 Not exceed 75% of static tipping loads

Notes for the lifting capacity chart

When the outriggers are used

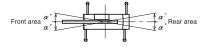
 The lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation.

[30 ton hook (mass: 220kg), 4 ton hook (mass: 60kg)]

Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.

- The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of working radius.
- 3. The jib working radius is based on the jib mounted on the end of the 30.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
- 4. Do not operate the jib when the outriggers are completely retracted.
- 5. The lifting capacities for the over sides vary with the outriggers extension width. Therefore for each outriggers extension condition you should work according the lifting capacity chart. Use the lifting capacity chart of outriggers full extended for both

front and rear areas lifting capacities.



Outrigger	Intermediate	Intermediate	Intermediate	Full retraction
extension status	extension (6.0m)	extension (5.0m)	extension (3.8m)	
Area α ·	35	30	20	3

6. The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.

[The hook for use with the rooster sheave is the 4 ton hook (mass: 60kg) with one part of line.]

- If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- If you are working with the boom while the jib is rigged, subtract 2,400 kg plus the mass of all attached hook, slings, etc. to the boom from the each lifting capacity of the boom, with an upper limit of 14 ton.

Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are completely retracted.

9. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded. Therefore, never lower the boom below these angles.

I herefore, never lower the boom below these angles.

- The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
- 11. If you are work with 9 parts of line on the hook, use the rooster sheave.
- High-speed lowering operation should only be performed to allow descent of the hook alone.
 Avoid sudden lever operation. Also, you cannot perform high-speed lowering operation with more than 7 parts of line on the hook.
- 13. Crane operation is permissible when a wind speed is less than 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
- 14. If you work with a load in excess of the lifting capacity or use incorrect working procedures, you are risking damaging the crane or tipping it over. In such cases, the crane will not be guaranteed.

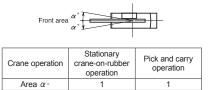
When the outriggers are not used

 The lifting capacity chart indicate the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.

Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.

[Rated tire pressure: 900kPa (9.0 kgf/cm²)]

- 2. The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of working radius.
- 3. The lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.



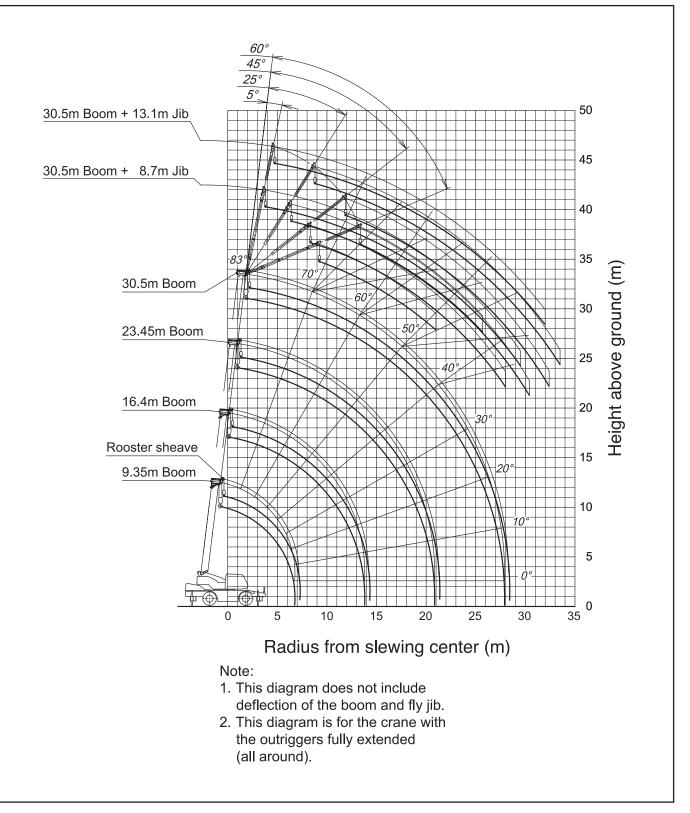
4. The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.

[The hook for use with the rooster sheave is the 4 ton hook (mass: 60kg) with one part of line.]

- 5. If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- 6. Do not work with the jib or with a boom length of more than 23.45m.
- 7. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- For pick and carry operation, the high/low speed switch must be switched to "ON" (low range) and the shift lever set to speed 1.
- 9. In whatever working conditions the corresponding boom critical angle is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded. Therefore, never lower the boom below these angles.
- The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
- 11. For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.

Take particular care to avoid sharp turns, sudden starts and stops.

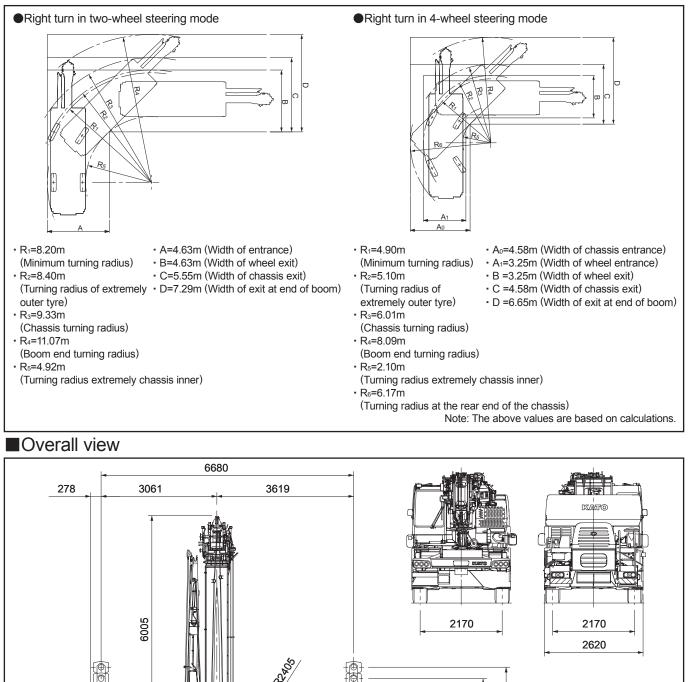
- High-speed lowering operation should only be performed to allow descent of the hook alone. Avoid sudden lever operation. Also, you cannot perform high-speed lowering operation with more than 7 parts of line on the hook.
- 13. Never operate the crane during pick and carry operation. The slewing brake must be applied.
- 14. If you work with a load in excess of the lifting capacity or use incorrect working procedures, you are risking damaging the crane or tipping it over. In such cases, the crane will not be guaranteed.



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Minimum path width

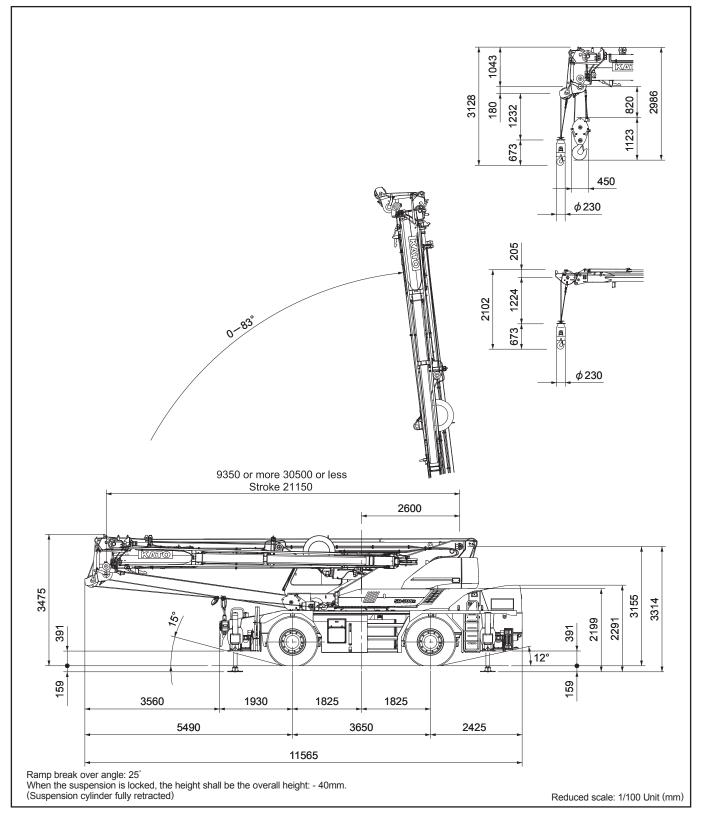
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Reduced scale: 1/100 Unit (mm)





* KATO products and specifications are subject to improvements and changes without notice.

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